



**National Institute of Metrology (Thailand)**

3/4-5 Moo 3, Klong 5, Klong Luang, Pathumthani, 12120, Thailand

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**Price List**

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
<b>Calibration Fee</b>						
<b>Dimensional Metrology</b>						
1	Iodine Stabilized He-Ne laser	633 nm	$5.0 \times 10^{-11}$	36,000/piece	Beat measurement method with Iodine stabilized He-Ne laser	08011 - 10101
2	Stabilized He-Ne laser	633 nm	$1.0 \times 10^{-9}$	22,530/piece		08011 - 10201
		500 - 1000 nm and 1560 nm	$1.0 \times 10^{-12}$	45,000	Beat measurement method with optical comb	08011 - 10202
3	Laser Interferometer (Laser Head)	633 nm	$0.1 \times 10^{-6}$	22,530/piece	Beat measurement method with Iodine stabilized He-Ne laser	08011 - 10301
4	Laser	350 - 1120 nm	$1.0 \times 10^{-7}$	21,280/piece	Direct measurement method by wavelength meter	08011 - 10401
5	Wavelength meter	400 - 1000 nm	$1.0 \times 10^{-6}$	21,600/piece		08011 - 10501
		1000 - 2000 nm	$1.0 \times 10^{-6}$	21,600/piece		08011 - 10502
6	Rectangular Gauge Block, Material : Steel, Ceramic, Tungsten Carbide, Chromium Carbide.	< 125 mm	Grade K or 00	1,500/piece	Optical Interferometry method, Deviation from central length Measuring faces inspection without lapping. Both side wringing	08021 - 10101
		< 0.5 mm		2,560/piece		08021 - 10102
7	Rectangular Gauge Block, Material : Steel, Ceramic, Tungsten Carbide, Chromium Carbide.	0.1 mm to 125 mm	Grade K or 00	1,730/piece	Optical Interferometry method, Variation in length measurement. Measuring faces inspection without lapping.	08021 - 10103
8	Rectangular Gauge Block, according to Euramet cg-2/v.02 (03/2011)	0.5 mm to 100 mm	Grade K or 00	1,500/piece	Optical Interferometry method, Deviation from central length Measuring faces inspection without lapping. Both side wringing	08021 - 10201
9	Rectangular Gauge Block, Material : Steel, Ceramic, Carbide	0.5 mm to 100 mm	Grade 0	750/piece	Comparison method, <i>Dlc</i> , Deviation from central length, Variation ( <i>f<sub>o</sub></i> , <i>f<sub>u</sub></i> ) Measuring faces inspection without lapping	08021 - 10301
		125 mm	0, 1, 2	3,030/piece		08021 - 10302
10	Rectangular Gauge Block, Material : Steel, Ceramic, Tungsten Carbide, Chromium Carbide.	0.5 mm to 100 mm	Grade K	1,905/pair	Direct Measurement by gauge block comparator, Difference in central length, variation in length and measuring face inspection without lapping.	08021 - 10303
11	Gauge Block Accessory	up to 100	As Specification	5,530/piece	Flatness and parallel measurement	08021 - 10401



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12	Rectangular Gauge Block (inch), Material : Steel, Ceramic, Carbide.	0.005 inch to 4 inch	Grade 0	750/piece	Comparison method, <i>Dlc</i> , Deviation from central length, Variation ( <i>fo</i> , <i>fu</i> ) Measuring faces inspection without lapping	08021 - 10501
13	Long Gauge Block (Metric Rectangular, Square)	125 mm to 500 mm	Grade 0, 1, 2	3,380/piece	Comparison Method, <i>Dlc</i> , Deviation from central length, Variation ( <i>fo</i> , <i>fu</i> ) Measuring faces inspection without lapping.	08021 - 10601
		600 mm to 1000 mm	Grade 0,1, 2	6,750/piece		08021 - 10603
14	Length Bar	5 mm to 600 mm	Grade 1	3,380/piece	Comparison Method, <i>Dlc</i> , Deviation from central length, Variation ( <i>fo</i> , <i>fu</i> ) Measuring faces inspection.	08021 - 10701
			Grade 2	3,380/piece		08021 - 10702
	Ball Bar / Nest Bar	Length up to 800 mm	1.2 μm	3,780	Comparative method with laser interferometer	08021 - 10703
15	Long Gauge Block Material : Steel	125 mm to 500 mm	Grade K or 00	8,100/piece	Optical Interferometry method, Deviation from central length Measuring faces inspection and lapping. Both side wringing	08021 - 10801
		600 mm to 1000 mm	Grade K or 00	12,000/piece		08021 - 10802
16	Thermal expansion coefficient of long gauge block	150 to 1000 mm	Grade K or 00	18,000	Laser interferometer	08021 - 10901
17	Square Gauge Block Material : Steel	Up to 100 mm	Grade K	1,730/piece	Optical Interferometry method, Measuring faces inspection without	08021 - 11001
18	Autocollimator (Analog, Digital)	± 1000"	0.2"	15,030/piece	Calibration by standard autocollimator	08031 - 10101
		± 1000"	0.11"	18,000/piece	Calibration by self calibration rotary encoder system	08031 - 10102
19	Rotary Encoder	0 - 360 degree	0.05"	24,000/piece	Calibration by self calibration rotray encoder system	08031 - 10201
20	Polygon	8 faces	0.2"	9,000/piece	Calibration by one autocollimator	08031 - 10301
		12 faces		11,250/piece		08031 - 10302
		36 faces		18,000/piece		08031 - 10303
		72 faces		45,000/piece		08031 - 10304
		8 faces	0.34"	6,750/piece	Calibration by two autocollimator	08031 - 10305
		12 faces		8,440/piece		08031 - 10306
		36 faces		13,500/piece		08031 - 10307
		72 faces		31,530/piece		08031 - 10308
		8 to 72 faces	0.1"	18,000/piece	Calibration by self calibration rotray encoder system	08031 - 10309



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21	Angle Gauge Block	up to 90°	0.4" to 0.55"	1,875/piece	Cal. by autocollimator and indexing table	08031 - 10401
			0.6"	1,250/piece	Cal. by CMM	08031 - 10402
			0.21"	2,500/piece	Calibration by self calibration rotray encoder system	08031 - 10403
22	Indexing Table	0° to 360°	0.2"	9,000/piece	Cal. by polygon 8 and 12 faces	08031 - 10501
			0.16"	15,000/piece	Calibration by self calibration rotray encoder system	08031 - 10502
23	Concise Semi-Circle	0° to 360°	1'	4,500/piece	Cal. By Profile projector	08031 - 10601
24	Gauge Template	0° to 360°	1'	4,500/piece		08031 - 10701
25	Overlay Chart	0° to 360°	1'	3,380/piece		08031 - 10801
26	Electronic Inclinator	±1000" or 4,85 mm/m	0.3" or 1.7 μm/m	7,030/piece	Calibration by autocollimator	08031 - 10901
	Electronic Level	-50° to 50°	2'	4,210/piece	Calibration by rotary encorder	08030 - 10902
	Electronic Inclinator	±4000" or 20 mm/m	0.29" or 1.4 mm/m	10,000/piece	Calibration by rotary encorder	08031 - 10903
27	Precision Level	Full range	5 μm/m	5,630/piece	Calibration by autocollimator	08031 - 11001
28	Cylindrical Square	Up to 600 mm	2 μm+ 6.0x10 <sup>-6</sup> l	6,530/piece	Comparison method with Standard square	08031 - 11101
29	Standard Square	Up to 600 mm	0.4 μm+ 2.4x10 <sup>-6</sup> l	4,500/piece		08031 - 11201
30	Square Master	Up to 600 mm	1 μm+ 7.2x10 <sup>-6</sup> l	4,210/piece		08031 - 11301
31	Precision Square	Up to 600 mm	1 μm+ 7.2x10 <sup>-6</sup> l	3,360/piece	Calibration by CMM	08031 - 11401
32	Bevel Protector	0° to 360°	1'	3,380/piece	Calibration by angle gauge block	08031 - 11501
33	Combination Set	0° to 360°	40"	4,110/piece	Calibration by angle gauge block	08031 - 11601
34	Straight Parallel	2 faces	0.6 μm + 6.0x10 <sup>-6</sup> l	3,380/piece	Calibration straightness measuring machine	08031 - 11801
		4 faces		6,750/piece		08031 - 11802
35	Small Angle Generator	Up to 1000 mm	0.6 μm + 6.0x10 <sup>-6</sup> l	5,400/piece	Calibration by autocollimator	08031 - 11901
36	Sine Bar	up to 500 mm	1"	4,500/piece	include angle deviation and flatness	08031 - 12001
				6,750/piece	angle deviation, flatness of measuring face, straightness of rollers, difference of rollers dia., center distance of rollers, parallelism of 2 rollers, parallelism of measuring face and 2 rollers	08031 - 12002



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37	Straightness Bar	up to 1000 mm	1.4 $\mu\text{m}$	5,000/meter	Calibration straightness measuring machine	08031 - 12201
38	Straightness Measuring Machine	up to 7,500 mm	$1.25 \times 10^{-3} /$	5,000/meter	Cal. by standard autocollimator	08031 - 12202
39	Straightness Measuring Machine and Straightness Bar	Up to 1000 mm	0.5 $\mu\text{m}$	10,000	Cal. by Reversal Method	08031-12203
40	Plain Ring Gauge	0.1 to 300 mm	$\sqrt{(0.37)^2 + (1.3 \times 10^{-3} \cdot d)^2} \mu\text{m}$	2,410/piece	Roundness measurement + 2,700/piece	08041 - 10101
41	Plain Ring Gauge	0.5 mm to 100 mm	$\sqrt{(0.25)^2 + (1.8 \times 10^{-3} \cdot d)^2} \mu\text{m}$	4,410/piece	Measurement by using Setting Ring Gauge and Universal Length Measurement Machine	08041 - 10102
		100 to 300 mm	$\sqrt{(0.25)^2 + (1.8 \times 10^{-3} \cdot d)^2} \mu\text{m}$	4,410/piece	Measurement by using Setting Ring Gauge and Universal Length Measurement Machine	08041 - 10103
42	Go - No Go Plain Ring Gauge	0.1 to 300 mm	$\sqrt{(0.37)^2 + (1.3 \times 10^{-3} \cdot d)^2} \mu\text{m}$	2,410/side	Roundness measurement + 2,700/piece	08041 - 10201
43	Taper Plain Ring Gauge	1 to 300 mm	2.0 $\mu\text{m}$	2,410/piece	Cal. by Universal length measuring Machine	08041 - 10301
44	Go - No Go Taper Plain Ring Gauge	1 to 300 mm	2.0 $\mu\text{m}$	2,410/side	Cal. by Universal length measuring Machine	08041 - 10401
45	Plain Plug Gauge	0.1 to 1 mm	0.236 $\mu\text{m}$	2,410/piece	Roundness measurement + 2,700/piece	08041 - 10501
		1 to 100 mm	$0.230 \mu\text{m} + 1.43 \times 10^{-6} d$	2,410/piece		08041 - 10502
		100 to 300 mm	$0.290 \mu\text{m} + 1.81 \times 10^{-6} d$	2,410/piece		08041 - 10503
46	Go-No Go Plain Plug Gauge	0.1 to 1 mm	0.236 $\mu\text{m}$	2,410/side	Roundness measurement + 2,700/piece	08041 - 10601
		1 to 100 mm	$0.23 \mu\text{m} + 1.43 \times 10^{-6} d$			08041 - 10602
		100 to 300 mm	$0.290 \mu\text{m} + 1.81 \times 10^{-6} d$			08041 - 10603
47	Pin Gauge	0.1 to 1 mm	0.236 $\mu\text{m}$	2,410/piece	Roundness measurement + 2,700/piece	08041 - 10701
		1 to 100 mm	$0.23 \mu\text{m} + 1.43 \times 10^{-6} d$	2,410/piece		08041 - 10702
		100 to 300 mm	$0.290 \mu\text{m} + 1.81 \times 10^{-6} d$	2,410/piece		08041 - 10703
48	Master Ball	dia. Up to 300 mm	$0.290 \mu\text{m} + 1.81 \times 10^{-6} d$	2,410/piece	Roundness measurement + 4,350/piece	08041 - 10801
49	3-Wire Set	All sizes	$0.23 \mu\text{m} + 1.43 \times 10^{-6} d$	2,820/set		08041 - 10901
50	Plain Snap Gauge	All ranges	0.5 $\mu\text{m}$	2,410/piece		08041 - 11001
51	Go - No Go Plain Snap Gauge	All ranges	0.5 $\mu\text{m}$	2,410/side		08041 - 11101
52	Thread Snap Gauge	All ranges	1.5 $\mu\text{m}$	2,820/piece		08041 - 11201
53	Go - No Go Thread Snap Gauge	All ranges	1.5 $\mu\text{m}$	2,820/side		08041 - 11301



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54	Flat Internal Limit Gauge	All ranges	0.5 μm	2,410/piece	Cal. by Universal length measuring Machine	08041 - 11401
55	Taper Plain Plug Gauge	1 to 300 mm	2.0 μm	2,820/piece		08041 - 11501
56	Go - No Go Taper Plain Plug Gauge	1 to 300 mm	2.0 μm	2,820/side		08041 - 11601
57	Parallel Thread Ring Gauge	from pitch 0.45 - 4 mm	1.5 μm	2,820/piece		08041 - 11701
58	Go - No Go Parallel Thread Ring Gauge	from pitch 0.45 - 4 mm	1.5 μm	2,820/side		08041 - 11801
59	Taper Thread Ring Gauge	from pitch 0.45 - 4 mm	2 μm	2,820/piece		08041 - 11901
60	Go - No Go Taper Thread Ring Gauge	from pitch 0.45 - 4 mm	2 μm	2,820/side		08041 - 12001
61	Parallel Thread Plug Gauge	from pitch 0.3 - 4 mm	1.5 μm	2,820/piece		08041 - 12101
62	Go - No Go Parallel Thread Gauge	from pitch 0.3 - 4 mm	1.5 μm	2,820/side		08041 - 12201
63	Taper Thread Plug Gauge	from pitch 0.3 - 4 mm	2 μm	2,820/piece		08041 - 12301
64	Go - No Go Taper Thread Plug Gauge	from pitch 0.3 - 4 mm	2 μm	2,820/side	08041 - 12401	
65	Pitch of thread gauge	0 to 120 mm	2.6 μm	2,030/piece	Cal. By Contour Measuring Machine	08041 - 12501
66	X-Axis Contour Measuring Machine	0 - 120 mm	1.6 μm	10,030/piece	Using Standard Scale	08041 - 12502
67	Included angle of thread gauge	0-90 degree	0.06 degree	2,030/piece	Cal. By Contour Measuring Machine	08041 - 12601
68	Height Master (analog/digital)	0 to 300 mm	0.3 μm + 3x10 <sup>-6</sup> l	13,500/piece	Cal. by Gauge block or Length Bar	08051 - 10101
		0 to 600 mm		22,500/piece		08051 - 10102
69	Check Master/ Step Gauge	0 to 300 mm	$\sqrt{(0.26)^2 + (1.4 \times 10^{-3} \lambda)^2}$ μm	10,660/piece	Cal. By Laser Interferometer	08051 - 10201
		0 to 600 mm		13,160/piece		08051 - 10202
		0 to 1000 mm		15,660/piece		08051 - 10203
70	Gear standard Spur gear : Profile slope deviation	25 to 400 mm	1.0 to 3.0 μm	7,880/piece	Cal. by Coordinate Measuring Machine	08051 - 10301
71	Gear standard Spur gear : Helix slope deviation	up to 45°	1.0 to 2.0 μm	7,880/piece		08051 - 10401
72	Spur gear : Pitch	up to 400 mm	2.0 μm	7,880/piece		08051 - 10501
73	Bevel Gear : form deviation	up to 300 mm	2.0 μm	7,880/piece		08051 - 10601
74	Ball Plate	up to 1000 mm	$\sqrt{(0.26)^2 + (1.9 \times 10^{-3} \lambda)^2}$ μm	36,000/piece		08051 - 10701
75	Depth Micro-Checker	0 to 150 mm	0.3 μm + 2.7x10 <sup>-6</sup> l	9,000/piece	Cal. by Laser Interferometer	08051 - 10801
		0 to 300 mm		11,250/piece		08051 - 10802



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76	Inside Micro-Checker	0 to 300 mm	$\sqrt{(0.3)^2 + (2.7 \times 10^{-3} \lambda)^2} \mu\text{m}$	9,000/piece	Cal. by Laser Interferometer	08051 - 10901
		0 to 600 mm		11,910/piece		08051 - 10902
77	Caliper Checker/ Vernier Checker	0 to 300 mm	$\sqrt{(0.3)^2 + (2.7 \times 10^{-3} \lambda)^2} \mu\text{m}$	9,000/piece	Cal. by Laser Interferometer	08051 - 11001
		0 to 600 mm		11,910/piece		08051 - 11002
78	Optical Parallel	max. dia. 60 mm	0.02 $\mu\text{m}$ (F)	1,600/piece	F being Flatness	08061 - 10101
			0.06 $\mu\text{m} + 6.48 \times 10^{-6} l \mu\text{m}$		P being Parallelism	
			0.23 $\mu\text{m} + 6.48 \times 10^{-6} l \mu\text{m}$		T being Thickness	
79	Focimeter/ Lensmeter	$\pm 25\text{D}$	0.12D	7,530	Comparative method with laser interferometer	08061 - 10102
80	Optical Flat	max. dia. 60 mm	0.02 $\mu\text{m}$	2,030/piece	Cal. by Flatness Interferometer	08061 - 10201
		max. dia. 300 mm	0.05 $\mu\text{m}$	2,530/piece		08061 - 10202
81	Glass Hemisphere	dia. Up to 355 mm	8+ 8R nm	8,100/piece		08061 - 10301
82	Magnification Setting Standard	dia. Up to 355 mm	$\sqrt{(16.2)^2 + (8.0 \cdot R)^2} \text{ nm}$	8,100/piece		08061 - 10401
83	Cylindricity of cylinder	Height up to 500 mm	0.09 $\mu\text{m} + 1.04 \times 10^{-4} \text{H}$	6,280	Direct measurement with roundness measuring machine	08061-10402
83	Straightness of Cylinder	Diameter up 300 mm	$\sqrt{(42)^2 + (0.91 \cdot l)^2} \text{ nm}$	7,530	Direct measurement by roundness measuring instrument based on reversal method	08061 - 10403
		Height up 500 mm	where l being travel length in mm			
84	Roughness Standard (Type A), Step Height	25 nm to 32 $\mu\text{m}$	7+12Z <sub>m</sub> nm	5,030/step	Z <sub>m</sub> being the measured value by contract measurement	08061 - 10501
		10 nm to 10 $\mu\text{m}$	2.4+5.4Z <sub>m</sub> nm	6,280/step	Z <sub>m</sub> being the measured value by non-contract measurement	08061 - 10502
85	Roughness Standard (Type C or Type D), Roughness Specimen	25 nm to 32 $\mu\text{m}$	U(R <sub>a</sub> )=9.6+11.9Z <sub>m</sub> nm	7,530/range	Z <sub>m</sub> being the measured value	08061 - 10601
			U(R <sub>z</sub> )=17.7+16.7Z <sub>m</sub> nm			
		Rsm up to 20 mm	1 $\mu\text{m}$			
86	Flatness Tester			200,000/ea.		08061 - 10701
87	Roundness of steel ball	dia. Up to 355 mm	11+ 11R nm	4,350/piece		08061 - 10801
88	Step height / depth standard	1 nm to 100 nm	0.43 nm	7,530/piece	Measurement by Metrological Nanomeasuring and Nanopositioning Machine	08061 - 10901
89	Pitch standard	0.1 $\mu\text{m}$ to 100 $\mu\text{m}$	3.70 nm	7,530/piece		08061 - 11001
90	Radius of spherical lens and ball	up to 50 mm	$\sqrt{(0.58)^2 + (8.18 \cdot 10^{-3} \cdot R)^2} \mu\text{m}$	2,530	Cal. by Flatness interferometer	08061-11101
91	Surface error of spherical lens and ball	400 mm		$\geq 23 \text{ nm}$	7,530/piece	Cal. by Flatness interferometer
92	Focal Length	400 mm	(0.87+0.47·F) $\mu\text{m}$	3,780/piece	Reflective Index (n) of a lens is required	08061 - 11201
93	Riser Block	0 to 150 mm				08071 - 10101



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		0 to 300 mm	$0.3 \mu\text{m} + 3 \times 10^{-6} l$	5,660/piece	Height and Parallelism	08071 - 10102
		0 to 600 mm				08071 - 10103
94	Vernier Caliper	0 mm to 1000 mm	$0.01 \text{ mm} + 1.0 \times 10^{-6} l$	3,380/piece	Cal. by Gauge Block or Length Bar	08071 - 10201
		0 mm to 1500 mm		4,500/piece		08071 - 10202
		0 mm to 2000 mm		6,750/piece		08071 - 10203
95	Height Measuring Station	0 mm to 300 mm	$0.3 \mu\text{m} + 3.0 \times 10^{-6} l$	11,250/piece	Cal. by Gauge Block or Length Bar	08071 - 10301
		0 mm to 600 mm		12,600/piece		08071 - 10302
96	Height Gauge	0 mm to 1000 mm	$6 \mu\text{m} + 1.0 \times 10^{-6} l$	9,000/piece	Cal. by Gauge Block or Length Bar	08071 - 10401
97	External Micrometer	300 mm to 500 mm	$1 \mu\text{m} + 1.0 \times 10^{-6} l$	2,820/piece	Cal. by Gauge Block	08071 - 10501
		> 500 mm to 1000 mm		3,380/piece		08071 - 10502
		> 1000 mm to 2000 mm		4,500/piece		08071 - 10503
		0 mm to 25 mm	$0.08 \mu\text{m} + 3.0 \times 10^{-6} l$	3,380/piece	- Resolution : 0.1 $\mu\text{m}$	08071 - 10504
98	Setting Zero Rod	Up to 1000 mm	$0.2 \mu\text{m} + 2.3 \times 10^{-6} l$	2,030/piece	Cal. by Gauge Block	08071 - 10601
99	Micrometer Head	0 mm to 25 mm	$0.6 \mu\text{m} + 2.3 \times 10^{-6} l$	3,380/piece	Cal. by Universal Length Measuring Machine or standard linear gauge	08071 - 10701
		0 mm to 50 mm		4,500/piece		08071 - 10702
100	Calibration Tester	0 mm to 1 mm	$0.25 \mu\text{m} + 2.3 \times 10^{-6} l$	7,880/piece	Cal. by Standard linear gauge	08071 - 10801
		0 mm to 5 mm		7,880/piece		08071 - 10802
		0 mm to 50 mm	$0.2 \mu\text{m} + 2.3 \times 10^{-6} l$	9,000/piece		08071 - 10803
		0 mm to 100 mm		11,250/piece		08071 - 10804
101	Dial Gauge Tester - Scale - Digital	0 mm to 25 mm	$0.6 \mu\text{m} + 2.3 \times 10^{-6} l$	6,750/piece	Cal. by Standard linear gauge	08071 - 10901
						0 mm to 50 mm
		0 mm to 100 mm	$0.3 \mu\text{m} + 2.3 \times 10^{-6} l$	10,030/piece		
		0 mm to 40 mm	$0.01 \mu\text{m} + 7.0 \times 10^{-6} l$	2,820/piece		Cal. by Profile projector
102	Electronic Comparator (Mu-Checker / Millitron) (Include: Probe and display unit) Analog M-Checker	5 $\mu\text{m}$	$0.06 \mu\text{m} + 7.0 \times 10^{-6} l$	4,500/piece	Request stand and Jig fixture	08071 - 11201
		15 $\mu\text{m}$		4,500/piece		08071 - 11202
		50 $\mu\text{m}$	$0.06 \mu\text{m} + 7.0 \times 10^{-6} l$	4,500/piece		08071 - 11203
		150 $\mu\text{m}$		4,500/piece		08071 - 11204
		500 $\mu\text{m}$	$0.06 \mu\text{m} + 7.0 \times 10^{-6} l$	4,500/piece		08071 - 11205
		1500 $\mu\text{m}$		4,500/piece		08071 - 11206



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**Price List**

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
103	Calibration Gauge for Seam Metal	0 to 10 mm	$0.3 \mu\text{m} + 0.42 \times 10^{-6} l$	2,530/piece	Cal. by QV	08071 - 11301
104	Laser Hologage	0 to 10 mm	$0.04 \mu\text{m} + 2.3 \times 10^{-6} l$	11,250/piece	Cal. by Gauge Block	08071 - 11401
		0 to 50 mm		15,750/piece		08071 - 11402
105	Radius Gauge	All sizes	$1 \mu\text{m} + 0.53 \times 10^{-6} R$	1,910/First(450/Next piece)	Cal. by QV	08071 - 11501
106	Pitch Gauge	All sizes	$1 \mu\text{m}$	2,250/piece	Cal. by QV	08071 - 11601
107	Feeler Gauge	All sizes	$0.8 \mu\text{m}$	1,910/piece	Cal. by ULM/standard linear gauge	08071 - 11701
108	Standard Foil	up to 100 $\mu\text{m}$	$0.05 \mu\text{m} + 0.41 \times 10^{-3} l$	2,250/First(450/Next piece)	Cal. by ULM/standard linear gauge	08071 - 11801
		over 100 mm	$0.34 \text{mm} + 0.41 \times 10^{-3} l$			08071 - 11802
109	Laser Scan Micrometer (Display Unit, Measuring Unit)	Up to 100 mm	$0.5 \mu\text{m}$	11,250/piece	Cal. by Standard plug gauge	08071 - 11901
110	Holtest / 3- point internal micrometer	Up to 100 mm	$1.5 \mu\text{m} + 1.5 \times 10^{-6} d$	2,250/piece	Cal. by Ring gauge	08071 - 12001
111	LSM Calibration Tool	Up to 5 mm	$50.0 \mu\text{m} + 2.5 \times 10^{-6} l$	2,250/piece		08071 - 12101
112	Arm Calibrator	All ranges	$0.01 \text{mm} + 9.5 \times 10^{-6} l$	2,820/piece	Cal. by CMM	08071 - 12201
113	Surfacetest Step Gauge	All ranges	$0.05 \mu\text{m} + 2.3 \times 10^{-6} l$	1,130/piece	Cal. by CMM/standard linear gauge	08071 - 12301
114	Magnification Checker	Full scale	$0.7 \mu\text{m} + 2.3 \times 10^{-6} l$	5,630/piece	Cal. by standard linear gauge	08071 - 12401
115	Orefice Plate	Up to 1000 mm	$0.02 \mu\text{m} + 2.3 \times 10^{-6} l$	25,200/piece	Cal. by Profile projector	08071 - 12501
116	Calibration block	V1	0.01 mm	4,500/piece	Cal. by QV	08071 - 12601
		V2	0.01 mm	3,380/piece		08071 - 12602
		LSW	0.01 mm	3,380/piece		08071 - 12603
117	Objective Micrometer	0 - 1 mm	$0.5 \mu\text{m} + 2.3 \times 10^{-6} l$	2,820/piece	Cal. by Lasr interferometer/QV	08071 - 12701
118	Dial gauge tester Assembly and inspection	0-50 mm	$\pm \mu\text{m}$	10,800		08071-12801
119	Test Sieve	0.020 - 125 mm	0.012 - 0.025 mm	3,800/piece	Cal. By 3D Measuring Machine, QV	08071-12901
120		0 mm to 100 mm	$0.5 \mu\text{m} + 0.35 \times 10^{-6} l$	3,380/piece	Cal. By Laser interferometer	08081 - 10101
		0 mm to 300 mm		4,500/piece		08081 - 10102
		0 mm to 300 mm	$\sqrt{(4l)^2 + (100.0 \times 10^{-3} \cdot \lambda)^2} \text{mm}$	15,750/piece		08081 - 10103
		0 mm to 500 mm		18,000/piece	Cal. by Line Scale Interferometer	08081 - 10104
		500 mm to 1000 mm		22,500/piece		08081 - 10105
121	Standard Metal Scale	0 mm to 1000 mm	$8 \mu\text{m} + 2.3 \times 10^{-6} l$	4,500/piece	Cal. by QV/Laser interferometer	08081 - 10201
122	Working Standard Scale	0 mm to 200 mm	$0.7 \mu\text{m} + 2.3 \times 10^{-6} l$	3,380/piece	Cal. by Line Scale Interferometer/ Laser interferomter	08081 - 10301
		0 mm to 500 mm	$1.0 \mu\text{m} + 2.3 \times 10^{-6} l$	5,630/piece		08081 - 10302
		0 mm to 600 mm	$1.0 \mu\text{m} + 2.3 \times 10^{-6} l$	6,750/piece		08081 - 10303
		0 mm to 1000 mm	$1.0 \mu\text{m} + 2.3 \times 10^{-6} l$	7,880/piece		08081 - 10304





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123	Reading Scale	0 mm to 300 mm	$1.0 \mu\text{m} + 0.35 \times 10^{-6} l$	3,380/piece	Cal. by laser interferometer	08081 - 10401	
		0 mm to 600 mm		5070/piece	Cal. by QV	08081 - 10402	
124	Calibration Grid	100-0-100 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	4,500/piece	Cal. by QV or Laser Interferomter	08081 - 10501	
		200-0-200 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	5,400/piece		8082 - 10502	
		300-0-300 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	6,300/piece		Cal. by QV	8083 - 10503
		> 300 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	10,800/piece		8084 - 10504	
125	Reticle of Scale Lupe	0 to 20 mm	$0.001 \text{ mm} + 0.35 \times 10^{-6} l$	2,250 First (1800/Next function)	Cal. by QV	08081 - 10601	
126	Digimatic Scale Unit	Up to 1000 mm	$0.01 \text{ mm} + 2.3 \times 10^{-6} l$	4,500/piece	Cal. by laser interferometer/standard glass scale	08081 - 10701	
127	Linear Scale	Up to 1000 mm	$7 \mu\text{m}$	5,630/piece	Cal. by laser interferometer/standard glass scale	08081 - 10801	
128	Measuring Microscope	Up to 1000 mm	$10 \mu\text{m}$	6,750/piece	Cal. by laser interferometer/standard glass scale	08081 - 10901	
<b>On-site Calibration</b>							
129	Gauge Block Comparator	Up to 100 mm	$0.032 \mu\text{m}$	20,030/piece	Euramet cg-2/v.02 (03/2011) 11 Gauge Blocks 0.5	08021 - 30801	
130	Universal Length Measuring Machine (ULM)	Up to 1000 mm	$0.05 \mu\text{m} + 1.2 \times 10^{-6} l$	20,250/piece	Comparison with gauge block	08021 - 30901	
		Up to 1000 mm	$0.05 \mu\text{m} + 1.2 \times 10^{-6} l$	29,800/piece	Comparison with Laser Interferometer	08021 - 30902	
131	Profile projector	0 to 150 mm		12,530/piece	Measure in linear scale, magnification of lens, square and 7 points in angle ( $5^\circ, 15^\circ, 30^\circ, 45^\circ, 60^\circ, 75^\circ, 90^\circ$ )	08071 - 30601	
132	Linear Scale	0 mm to 1000 mm	$7 \mu\text{m} + 2.3 \times 10^{-6} l$	5,630/piece	Cal. by laser interferometer/standard glass scale	08081 - 30801	
		0 mm to 2000 mm		6,750/piece		08081 - 30802	